



IMAGE INSTALLATION GUIDE

VAB-630

Android EVK v1.0.2



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Revision History

Version	Date	Remarks
1.0.2	01/03/2017	Initial release



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1. Introduction

This Image Installation Guide explains how to boot the Android EVK system image on the VAB-630 board in order to begin evaluating the platform.

1.1. Package Contents

arm_201103_gcc4.5.2.tgz: is a toolchain, which is a set of software development tools for building images for the VAB-630 board.

VAB-630_Android_EVK_v1.0.2.zip: is a precompiled Android image for evaluating the VAB-630 board.

SmartETK_sample.apk: is the demo program of the Smart ETK.

BluetoothSPPTest.apk: is the demo program of the Bluetooth SPP profile.

1.2. Version Information and Supported Features

- U-Boot version: 1.1.4
- Kernel version: 3.4.5
- Evaluation image: Android Lollipop 5.0
- Development based on WM8980 Android_5.0_v0.2.0
- Supports SPI with eMMC boot
- Supports HDMI or LVDS display
- Supports HDMI audio output
- Supports ONation capacitive touch panel (through USB interface)
 - ONation 10.1" LVDS Panel VIA1001 OT101RBWDLT-00 (1280×800)
- Supports Debug UART connector
- Supports Line-out and Mic-in
- Supports Micro USB OTG connector
- Supports 10/100Mbps Ethernet
- Supports EMIO-5531 USB Wi-Fi & Bluetooth module
 - Supports Bluetooth A2DP and SPP profile
- Supports EMIO-2531 miniPCle Wi-Fi & Bluetooth module
 - Supports Bluetooth A2DP and SPP profile
- Supports EMIO-2550 miniPCle Mobile Broadband module
- Supports Smart ETK v1.0.2 : Watchdog timer, GPIO and UART

2. Image Development

This section explains the setup requirements for booting from the eMMC.

2.1. Booting from the SPI ROM an eMMC

The first step is to insert a Micro SD card into the host machine and create a FAT formatted partition. Next, extract the **VAB-630_Android_EVK_v1.0.2.zip** and copy the **bspinst** folder and **scriptcmd** file onto the Micro SD card.

Insert the prepared Micro SD card into the VAB-630, connect an HDMI display, and power on the device to initiate the update process.

```

Wonder Media Android BSP Installation
VAB-630_Android5 .0_v1.0.2

-----

W-Load 0.21.00.00 -> 0.21.00_140604
U-Boot 0.00.00.00 -> 0.30.02_141210
Kernel 0.41.00.00 -> 0.38.00
Base File System Version - 0.02.00
Reference File System Version - 0.01.00
OtherInfo -

[Progress Bar] 100 %

Please remove installation media!

Warning! Please don't power off! Please wait...
```

Update process screen

When the update process is completed, remove the Micro SD card. The system will automatically restart.



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